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NOTICE OF ALLOWANCE AND FEE(S) DUE

23474 7590 01/20/2010 FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,993	05/15/2006	Yukihito Furuya	2138.P0043US	5925
TITLE OF INVENTION, D				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/20/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used for correspondence including d below or directed oth ions.	or tran ig the l ierwise	smitting the ISSU atent, advance or in Block 1, by (a							
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10/562,993	05/15/2006			Yukihito Furuya			- :	2138.P0043US	5925	
TITLE OF INVENTION:	ROTARY RINSER									
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3. ASSIGNEE NAME AT										
PLEASE NOTE: Unit recordation as set forth	ess an assignee is ident 1 in 37 CFR 3.II. Comp	ified be detion o	low, no assignee of this form is NO	data will appear on th T a substitute for filing	e pa an a	tent. If an assigno ssignment.	e is ic	entified below, the de	cument has be	en filed for
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Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	۵	Individual 🚨 Co	rporati	on or other private gro	up entity 🗖 (Jovernment
4a. The following fee(s) a	are submitted:		41	o. Payment of Fee(s): (I	Pleas	se first reapply an	y prev	iously paid issue fee	hown above)	
Issue Fee	o small entity discount p		.0	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.						
Advance Order - #		ermitte	a)	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					dit any	
				overpayment, to D	epòs	it Account Numbe	r	(enclose a	extra copy of	this form).
 Change in Entity Stat Applicant claims 	us (from status indicate) SMALL ENTITY statu			☐ b. Applicant is no	long	er claiming SMAI	LEN	TTY status. See 37 Cl	R 1.27(e)(2).	
NOTE: The Issue Fee and interest as shown by the r										her party in
Authorized Signature						Date				
Typed or printed name						Registration N	o			
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT den, sh	11. The informatic 122 and 37 CFR O. Time will vary ould be sent to th SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re esti idivi ficer TO	etain a benefit by the mated to take 12 m dual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Dep D TO: Commissioner	by the USPTC g gathering, pro- ne you require rtment of Com- or Patents, P.O	to process) eparing, and to complete merce, P.O. Box 1450,

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10/562,993	05/15/2006	Yukihito Furuya	2138.P0043US	5925	
23474 7	590 01/20/2010		EXAMINER		
FLYNN THIEL	BOUTELL & TANK	HECKERT, JASON MARK			
2026 RAMBLING		ART UNIT	PAPER NUMBER		
KALAMAZOO, N	MI 49008-1631	1792			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 727 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 727 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/562,993	FURUYA ET AL.	
Examiner	Art Unit	
JASON HECKERT	1792	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 10/21/09.
- The allowed claim(s) is/are 1,3 and 6-14.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the: a) 🔯 All
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3.
 ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

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Art Unit: 1792

DETAILED ACTION

 Due to the following examiner's amendment, the previous rejections are withdrawn.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Terryence Chapman on 1/11/10.

The application has been amended as follows:

Please DELETE all of claim 1, lines 1-21, and INSERT -- A rotary rinser comprising:

a stationary member in which a first supply passage and a second supply passage are formed:

a rotary member, located below the stationary member, rotatable about a central vertical axis and disposed to be slidable with respect to the stationary member, the rotary member comprising a first annular projection projecting upward at a first elevation and a second annular projection projecting upward at a second elevation together defining an annular groove between the stationary member and the rotary member to prevent a fluid admixture, and comprising a first discharge passage located within the first annular projection and a second discharge passage located within the second annular projection configured to move into and out of communication with the first and second supply passages, respectively, as the rotary member rotates, and are disposed such that during rotation of the rotary member, when the discharge passages are connected to the supply passages in the stationary member, a fluid is fed into a cleansing nozzle to be injected into a vessel;

wherein the supply passages and the discharge passages come into contact at respective sliding surfaces located at a junction of the stationary member and each one of the annular projections, the sliding surfaces being disposed at different relative elevations and at different radial positions relative to the central axis.—

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Art Unit: 1792

Please CANCEL claims 4 and 5

In claim 6 line 1, please DELETE "The rotary rinser of claim 5, wherein each discharge passage opens through a sliding surface" and INSERT –The rotary rinser of claim 1, wherein each discharge passage opens through one of the sliding surfaces.—

In Claim 7 line 19, please DELETE "central axis," and INSERT —central axis, such that an annular groove is formed between the first and second flow junction in order to prevent a fluid admixture.—

In Claim 10 line 5 please DELETE "an annular groove" and INSERT –the annular groove--.

3. The following is an examiner's statement of reasons for allowance: The previous presented prior art of Morita does not disclose the sliding surface or junction being located at a different radial position and elevation than another sliding surface or junction thus forming an annular groove that prevents fluid admixture. The annular grooves of Morita are formed at the different elevations but the same radial position, and no groove is present to prevent admixture. The only grooves present allow for fluid to transfer. Newly found art of Gobell teaches a rotary valve that has conduits located at different radial positions but not at different elevations with an annular groove to prevent fluid admixture. Williams and Ethridge teach stacked rotary swivels that allow for different conduits to be located at different radial positions and different elevations, but do not call for or obviate the use of an annular groove to prevent fluid admixture. Additionally, the inlets to not connect as described in the independent claims. None of the above references alone or in combination would point to the instant application's independent claims.

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Art Unit: 1792

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON HECKERT whose telephone number is (571)272-2702. The examiner can normally be reached on Mon. to Friday, 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Barr/ Supervisory Patent Examiner, Art Unit 1792 Application/Control Number: 10/562,993 Page 5

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